

Diesel Risk Reduction Plan

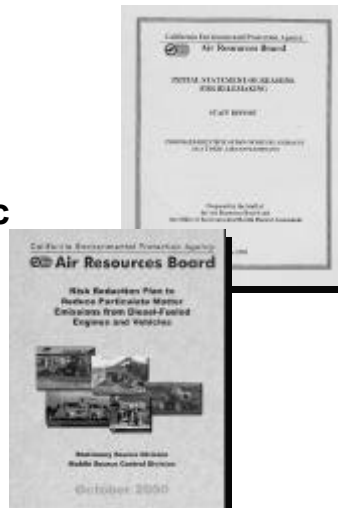


California Environmental Protection Agency

Air Resources Board

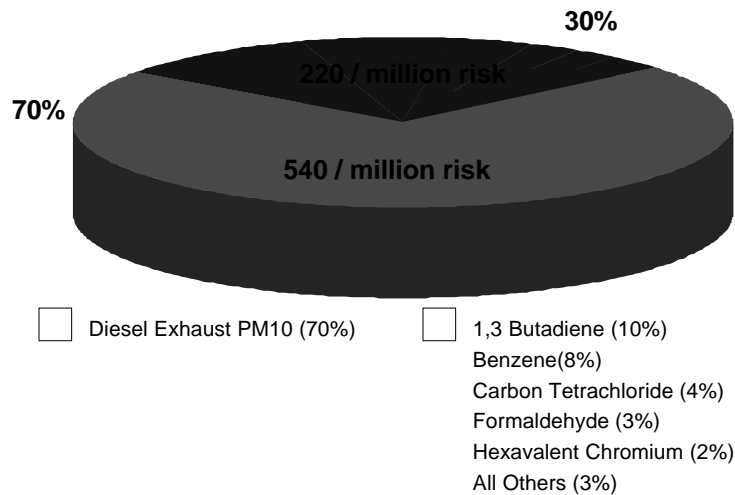
Diesel PM: Identification and a Plan to Control

- August 1998 Board listed “Particulate Matter Emissions from Diesel-Fueled Engines” as a Toxic Air Contaminant
- September 2000 Board approved the Diesel Risk Reduction Plan



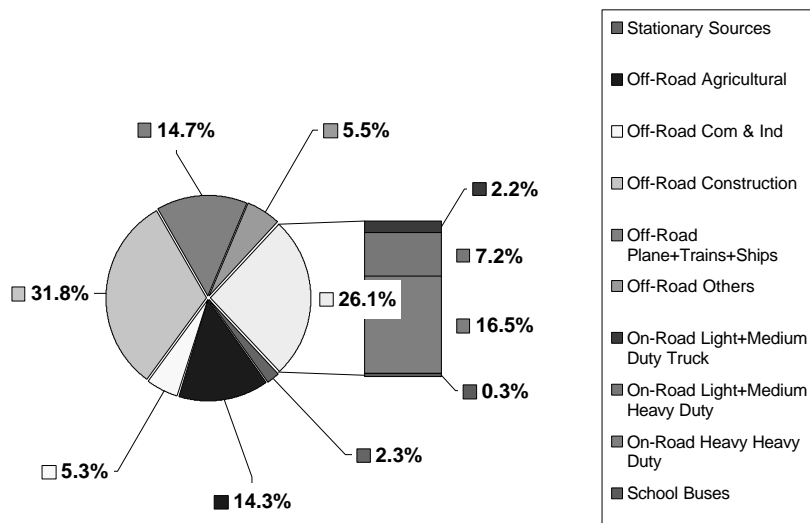
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Diesel PM Responsible for 70% of Year 2000 Statewide Risk from Air Toxics Emissions



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2000 Diesel PM Emissions Inventory By Category



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The Diesel Risk Reduction Plan

- Reduce emissions from *new* mobile, portable, and stationary engines
- Reduce emissions from *existing* mobile, portable, and stationary engines
 - retrofit where economically reasonable
- Provide very low-sulfur diesel fuel (15ppm) for diesel traps

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What Does the Diesel Risk Reduction Plan Recommend for Agricultural Equipment?

- Reduction in diesel PM emissions from new and existing mobile, portable, and stationary agricultural equipment
- Use of low-sulfur diesel fuel
- Consideration of alternative technologies

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Implementation Goals

- Apply controls where it makes sense
- Maintain agricultural viability
- Foster use of incentives
- Encourage participation from agricultural community
- Address agricultural concerns

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Initial Focus on Categories with Highest Diesel PM Emissions

- Agricultural engines that emit over 97 percent of diesel PM emissions
 - tractors
 - irrigation pumps



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How Can we Reduce Diesel PM from New and Existing Agricultural Engines and Vehicles?

- Establish new engine standards
- Promote use of alternative technologies
- U.S. EPA needs to reduce emissions from new farm equipment < 175 hp
- Retrofit with catalyst-based DPFs
- Investigate opportunities for incentives to retrofit existing engines
- Voluntary non-regulatory programs

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Benefits of Plan



- Significantly reduces diesel PM emissions
- 75% reduction in potential cancer risks by 2010, 85% by 2020 (see next slide)

- Decrease in noncancer health effects (asthma, bronchitis)
- Improve visibility
- Reduce “soiling”

